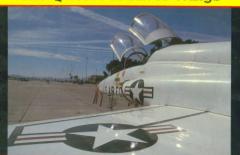
### **SUPERBASE 13**

## WILLIAMS

The Quest For Silver Wings



Philip Handleman

## WILLIAMS



### **SUPERBASE 13**

# WILLIAMS

The Quest For Silver Wings



#### ACKNOWLEDGEMENTS.

My thanks go to the dedicated personnel who showed me how a sprawling pilot training facility like Williams Air Force Base can smoothly and efficiently accomplish its critical ongoing mission. Those people to whom I am ever so grateful include: Capt Linda Britt, Lt Rockford 'Rocky' Willett, TSgt Bob Tucker. Sqt Mike Richmond, A1C Ken Hawkins, A1C Eric Parnell, Arlene Enfield, Lori Bolerjack, Sqt Jeff Drazil, Lt Col Bill Fuller, Lt W J Morgan, SrA Alice Glick, Lt Jason Mogle, Tom McCoy, Capt Amy Brandon, Lt Bruce Desautels, Lt Paul Gates, Lt Gretchen Krueger, MSgt Nathaniel Daggs, Capt Bernard Mater, MSgt Tom Trent, A1C Christine Campbell, Lt Col Ronald Diedrichs, SSqt Nigel Beckford. Lt Andy Hurling, Sqt Eric Prothe, Sqt Tony Harris, Capt Frank Gebert, Capt Scott Chapman, Lt Col Russ Allen, Sqt Scott Diprofio, Lt Mark Mitchell, SSqt Edward Terhune, Lt Sandra Graves, Lt Col Michael Perry, Capt Kenneth Lang, SMSqt John Baker, Sqt Dennis Williams, Col Ronald Smith, Col Bernard 'Jerry' Stecklein, Lt Col John Callen, and Capt Sammie Grizzle. While I would not have been able to undertake this project without the help of everyone mentioned here, I am, of course, the one who is responsible for the content of this book.

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C Phillip Handleman 1990

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Front cover With the azure blue skies forming a breathtaking backdrop, a gleaming T-38 Talon sits on the Williams ramp awaiting instructor and pupil

Back cover His bulky parachute firmly strapped to his torso, a student squeezing into the small T-37 cocknit

Title pages Rows of aged but effective Cessna T-37 primary jet trainers grace the Williams Air Force Base parking ramp

Right This curvaceous North American F-88 is a reminder of Williams Air Force Base's past. In the 1950s, Sabres were used at Williams for fighter connery training. This pedestal-mounted example at the main entrance to the base is encircled by the colourful flags of the 50 states. indicating the presence of students from every part of the country. The aircraft is dedicated to Air Force

To the young men and women in quest of silver wings



#### Introduction

Nestled in the Valley of the Sun on the southeast periphery of the expanding Phoenix metroplex is a pilot factory. Williams Air Force Base, or 'Willie' as the locals call it, is the western world's largest undergraduate pilot training facility—producing about 350 of the world's finest pilote each year.

and the control of the control williams, and Arizona-born USA Turny pilot who perished in a flying accident during the 1920s, Willie traces as the beginning as a training site to the summer of 1941. It seemed increasingly likely to policy planaters in the Army Air Force that the war in Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania would soon engulf the USA and Europe and Ania War Williams of Conce the USA extended World War Z. Williap personnel, with a heightened sense of urgency, began flight training even before construction was completed. Totaly, after having graduated completed. Totaly, after having graduated and completed. Totaly, after having graduated and under the Control of the USA and Europe and and Europe

Being at the forefront of change and innovation is a Willie specialty. A group of talented Willie pilots formed the Air Force's first jet earrobatic demonstration team using P-80 Shooting Siars. This hearty band of serial performers continued wowing airshow performers continued wowing airshow performers continued wowing airshow prought an abrupt halt to their public derring-do. The Arcejeles, as they were called, set the stage for the Air Force's permanent air demonstration team, known to millions

throughout the world as the Thunderbirds. In the 1940s Willie became the first Air Force base to institute jet pilot training. In 1977 Willie graduated the Air Force's first women pilots, now a common occurrence for the corriso

now a common occurrence for the service. For today's visitor. Willie's environment is at first dominated by the unbearably loud and virtually endless shrieks of the T-37 and T-38 training aircraft. As the day unfolds, the next obvious environmental factor is the oppressive heat; in summer ambient temperatures typically rise to over 100 degrees Fahrenheit. In these conditions—united by a love of aviation-ground crews, instructor pilots and students, indeed, the whole sprawling infrastructure of Williams Air Force Base, focus on the critical goal of filling Air Force cockpits with the best qualified flyers. After a gruelling one-year training programme that results in some young officers being washed out, the successful students receive their silver wings and go on to challenging flying assignments.

A contagious enthuisiasm permeates Willie and survey the case at ATC's other undergraduate pilot training bases for here is where bright and idealatic young officers where bright and idealatics young officers of the pilot of the pilot of the pilot of the fly. In their noble quest, the students engage in an unusual cannarderie that is refreshing to behold. As one enters through the main gate, the baggage of the everyday world in while the pilot of the pilot of the yalves as loyally and dedication are found instear and thriving. Willie is an inspiring place.

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WELCOME TO WILLIE





### The Talon

After mastering basic aviator skills in the relatively tame T-37, Air Force student pilotes move up to the Northrop T-38 Talon supersonsit trainer. The Talon is a hot aeroplane, and the consensus seems to be if you can handle one of these then you can fly anything in the Air Force







Left Fresh out of the washrack this sparkling T-38 glistens in the Arizona sun

Above Each T-38 gets attentive care from dedicated ground crows who go to great lengths to ensure the arrivorthiness of the Williams aircraft. Here a T-38's canopy gets a thorough polish.







Left A student on one of his first hops in a Taion performs a meticulous walk around preflight check, the standard procedure for every flight. Students who make it through the primary phase of flight training can expect to log about 109 hours in the T.3.

Above Williams Art Force Base made history in 1977 when it graduated the first female plots into the modern US Air Force. Today it is commen to see not only women students but also women instructors. One of those instructors, sporting a G-suit and strapped to a forty pound parachute, climbs into the rear cockpit (the instructor's offsee) of a T-38.

Overleaf Student and instructor communicate through intercom microphones in their respective oxygen mask assembles. Instruments are checked for proper readouts before taxing. The instructor in the rear cockpit is perched slightly higher to allow for improved forward visibility.









Top left Once the checklist is completed and all systems are go, the T-38 taxies out of its parking aport on the huge Williams tarmac, fetching a fond wave from the aeroplane's crew chief

Bottom left The ambient midday temperatures in Arizona's Valley of the Sun, as the greater Phoenix area is known, commonly exceed 90 degrees Fahrenheit Accordingly, the training aircraft such as this T-38 normally tax with campies raised. The aircraft air conditioning systems are effective only when airborne.

Above Formation flying in the T-38 is an integral part of pilot training at Williams. The T-38, with two 188-CE-5 afterburning engines, is a powerful and responsive aeroplane that can climb to 30,000 feet in one minute.



Here four Talons from the 97th Flying Training Squadron (FTS) rendezvous formation practice. The usually clear desert sky is ideal for Williams flight operations.







Above in formation flight, the T-38s may get as close as three feet apart in terms of their winging separation. The success of formation flight depends a great deal on the steadiness of the team leader and the constant alertness of the winginen

Right The all-white Telon paint scheme, helpful for sighting during right flight, stands out against the magnificent buckskin tersain below. In the lead is the 97th FTS Gommander's aeroplaine, recognizable by the special stall marking that includes the squadron number, followed by aeroplanes from each of the squadron's student flights as denoted by the different colour fin strings.







The slook and slender lines of the attractive T-38 are apparent as this four-ship







Left The T-38's underside planform view is clearly evident as this wondrous training aircraft passes overhead during a routine series of touch-and-goes on one of the three parallel runways at Williams.

Above The T-38 is one of the more strikingly handsome aircraft in the Air Force inventory with its long nose, sieck fuselage, and short span wings. During a normal approach to landing, slaps are extended as is the case here.



Above Shortly before the outbreak of World War 2, a barren stretch of Arizona desert was chosen as the location for Williams Air Force Base in large measure because of the desert's consistently good weather. Blue skies often frame T-38s like this one on final approach at Williams

Right Typically, on weekdays there is hardly a moment at Williams when trainers are not in the taffic patierns of the three runways. The continual flow of traffic, engaged for the most part in executing touch and goes, makes Williams an extremely busy air base. Here a T-38 clears the outer perimeter fence just before landing.





The moment of truth 'Milli-seconds before rounds down co-ordination is the key Decause her '33 sha he high minimum landing speed of 155 kbosts some of the mideas in Add truth courts on Landing. Perhaps in no other phase of the modergraduse pilor training course as one mick skill eviques. I just he right migra of centrol sinck and throttle are called for in bringing the 'Taken back to earth. Not surprised,' this apper of the training course is assertimen a: stimbling block for students who have made is through the preliminary hardles in the earthy art of the follow programma.



This view of the T-38 cockpit conveys a sense of the cramped quarters. The knobs atop the control stack are visible in the foreground. The bottoms of the rudder pedals can be seen below the instrument panel. On the right is a red banner attached to a nafety on that prevents inadeverent.

operation of an ejection device









Up close, the instrument panel presents a straightforward layout of flying quages and engine disks. The artificial horizon is the centre and at the top of the panel dominates. The modern Air Force places substantial emphasis on instrument flight, so students have to devolop profesency flying "under the hood."







Left Talons were first delivered to the US Ar Forevin 1981, the final uniforme delivery skinglighere 1987. Considering the age of that uncertifying and in heavy size, it is a credit to the designers and builders as well as the maintainer of the control of the designers and builders as well as the maintenance crews that it continues to solition so no decreasely in a demandiag role. Regularly scheduled maintenance is performed on all the arresaft Depending on the surcessful securitation of flight burns and its server of basery if may be variately disassembled, with appropriate parts repaired or replaced, and then pieced basic reposition.

Above A key to the success of the outstanding flights adely record of these old aeroplanes at Williams is the price the maniterance crose size on their pop. Also, the various repair specialists co-operate with each other. As one mechanic in the engine shoppad, "I've a team effort "Plans are under way, as a cost cutting measure, to shift the aircraft maintenance responsibility from the military crows-to-overland the control of the control

Overleaf indicative of the high standards applied by the Williams maintenance crews is the fact that even the maintenance hangar floor is kept very clean









The General Bleetre [86:GF-6] after burning engine, capable of producing 3050 pounds of threat, is an additional producing 3050 pounds of threat, is an old but reliability powerplant. Here an engine, after extensive maintenance, under goes a seasured run up an one of the specially designed static test could be a season of the season of the season of the season of the season which is vectored our of the season which is a season of the season of th



Above The agoing T. 38s are expected to remain in service as Air Force trainers through the turn of the century. What is a common sight today. T-38s lined up and waiting for their students, was a common sight nearly thirty years ago and should be still after the year 2000.

Right Williams Air Force Base boasts over 100 T-38s. Seen here is a section of the T-38 parking area









Painted on the Williams transient ramps a red carpet for visuang officers Because of the vast citizances involved, some Williams maintenance passonael commute across the flight lime by theyels in this access once of man's eatiness forms of mechanized crassportation is jurkappead with one of the most modern forms.





## **Cessna Tweet**



Lett Unike the other AFF orce Commands, AFF Franing Command does not have to include in the often drap, low vissibility paint schemes for its arresaft. This Cessna 7:37 Tweet sports a bright star with striped bars as well as the new two-tone paint scheme. Ralving the arresaft in two distinct colours is to assist an outside observer in determining arresaft direction and attitude.

Above The helpful hand of the crew chief conveying the helmet to a student getting ready for flight



Above pick first, the Tweet's antraument panel may intended the designing student pick in a short order the average newcome adapts to the Air Force firing environment and developes, a reasonable comfort level in the T-3T, which, after all, as a relative of the pick of t

Right The undergraduate flying training squadrons are divided into flights. As might be expected, each flight has adopted a specific name and symbol. Represented here is Good Grief Flight of the 96th FTS. Note the shoulder patch that employs the Snoozy eartoon character.









Student pilots have been receiving their initial jet training on the Tweet since the sturdy little T-37 entered service in 1967.



Above As. a T-38 taxies past in the background, the Tweet's flight crew gets ready for taxin what has become a basy cocipit. The crew check stands by with bearing protectors, ready for cern has the screeching whine of the ff-37 sengines with the ancessare high pitched screeching of the Tweet's flee engines and loud whine of the Taxins 185.0E.5 sengines, the Williams flight line noise level is unknown to the Taxins 185.0E.5 sengines, the Williams flight line noise level is unknown to the Taxins 185.0E.5 sengines, the Williams flight line noise level is unknown to the Taxins 185.0E.5 sengines, the Williams flight line noise level is

Amust

Right The clam shell canopy is a distinctive feature of the T-37 which was designed expressly for primary flight training. Students average about 87 hours.



of flight time in the T 37









Left Despite all the high techan the Air Force of today communications between T-37 flight crew and crew chief are reduced to band signals when those unbearably loud J69s start. The classic thumbs up is still very much in use, its meaning still the same, allusing or

Above The T-37 is slow for a jet aeroplane. Its two ancient Continental J69 engines each produce only 1025 pounds of thrust





Balow left Aerobatics at ep part of the introduces to Air Foxe Dying; The 7.32 in taken out to designated partons on exact a repectified intuitied so for a full because of base carerobate manosurves from topper to spins. This part of the flight training programme contributes to sadiety and build palegoin agids if and confidence. The demands on Air Force situation pilots make them, upon graduation, among the will be also the programme contributes to sadiety and go by one ho fax. A cone student pilot at the programme of the pilot at t

Above Against the omnipresent Santan Mountains, one more T-37 in a neverending procession flares just prior to landing. In the distance is a T-38, perhaps an incentive to the T-37 students, for after successful completion in the primary phase they move up to the fighter-tike Talon



Above Not all tasks associated with flying at Williams Air Force Base are glamorous. Every inch of a weary Tweet gets a thorough cleaning in the

Above right Keeping these old aeroplanes airworthy long past their originally intended service lives entails keeping them clean. A special cleaning option is sprayed on main a high pressure hose. The cleaning crew, which rotates periodically to maintain morals, done protective clothing. The Tweet's big brother, the Tation, occupies the adjoining bethin this weathers.

Below right The Williams crows that foil away in oppressive heat at these less than glamorous jobs day an and day out keeping the trainers ready for flight are among the Air Porce's unsuing heroes





The T-37's durability is -puty described by a Williams maintenance technician 'Itis a tank'. he declared, referring to Tweets in general. Here a starboard engine is being removed for inspection as part of the established maintenance programme. The engine removal can be accomplished in about half an hour



Each year a small number of foreign attidents from allied nations come to Williams to receive their undergraduate pilot training. Moreover, the T-37 has been employed as a trainer over the years by many foreign air forces



Above As Williams Air Force Base operates 91 Tweets, the parking ramp is filled with T-37s

Right: The side by side seating arrangement makes for an especially effective primary flight training environment. The eye contact between student and instructor that this seating arrangement provides is quite valuable.







Wilhams graduates approximately 500 students as Ari Force plotos sech year. This makes Williams not only the largest undergraduate pilot trauning facility in the Ari Force, but also in the wastern world. The base's reputation for excellence, the appealing climate and the proximity to a major utilities continued as the proximity of the appealing climate and the proximity of a major utilities centre make a Williams assignment very desirable. A 7 makes under the bright



## Basic training



Right Betero getting their Hands on the controls of an are opposite, the student pilots are subjected to the rigious of life support training. Here a pilot trainer is diragged over a field by his classmates to simulate the effects of an open state-bate canopy palling humsercore they ground after the control of the support of the support production of the support of the support training the support of the support of the life support of the support of the support of the lines of the support of the support of the lines of the support of the support of the lines of the support of the support of the lines of the support of the support of the support of the lines of the support of the support of the support of the lines of the support of the support of the support of the lines of the support of t

Above Though the student pilots are not counted to a parachet gump, they are trained to make suffer an officetion or a parachute jump, they are trained for that eventuality should an emergency require such action. Here students jump off a piatform to practice the proper impact absorbing techniques associated with a parachute landing











Left A more sophisticated simulation of a parachute landing is created through the use of this scaffolding device. Instructors from the base's aerospace physiology unit are on hand to teach the students proper procedures

Above The preflight training continues at the old Rittenhouse Auxiliary Air Field which is a short driver from Williams. Here the suddens are query further schooling in life support techniques: The class is being instructed in the use of the equipment in the standard state Air Force public survivals in The instructor is about to activate a high intensity flare which is why many of the shudents are shoulding their eyes?



Above The culmutation of the day's life support training is the series of three parasall rides per student. Each student is towed by an Air Force pickup truck until a sufficient altitude is obtained. At just the right moment, the cable is released and the student floats down under the parasall, simulating a parachute fall

Right The truck races across a sandy field once used as a runway, kicking up a cloud of dust as the parasail lifes a student pilot





Above A student pilot's first flight at Williams Air Force Base is this rather docile parasail ride. The tow line is visible as the trainee hams it up during his ride by waying to his classmates below.

Right When the inquisitive groundcrew arrives in the drop zone, the student pilot, no matter how hard the landing, invariably responds that it was a fun ride and that he is just fine. The attitude of the student pilots is sunformly gung-ho, and at this early stage in their training programme they are not about to let a bruse of bump dampen their spirits.













Allow e left illoidity after implicit, allott member of the class receiver a success, and the manuscript. The mit citigate from the owns and a validabil Masers' Bergusst and the control of the contro

Below left An eager student pilot getting strapped into the parasail harness for his first ascent at Williams Air Force Base

Above Among avistor rituals is the customary dunking of a student pilot upon completion of his first solo flight. Lake their predecessors, these-young officers gleefully toss their newly soloed classmate unto the water. Because of the volume of the Williams flight training activity, the dunking tank remains filled to the rim.



Above All Air Force student pilots must be commissioned officers and vistually all are college graduates. The academic portion of the training programme is in its own way as demanding as the flying training. As can be seen here, the standard uniform even in the classroom is a flight suit.

Above right in one of the study halls, a wall mural depicts a simulated dogfight between an aggressor F-5 and an F-15 air superiority fighter. When it comes to requesting future assignments, many student pilots express a preference for

fighters

Below right Students train together. Here two student pilots from the 99th FTS's Tipper Flight, with their distinctive Bunny shoulder patches, review their flight plan





Above Weather briefings are a standard part of flight planning at Williams

Above right The daily flight schedule for T 37s is posted on the board at the supervisor of flying desk in the headquarters building for the 95th and 96th FTSs. This system makes it easy to keep track of equipment and personnel.

Below right The supervisor of flying desk on the T-38 side of the base serves the same purpose. Here flight crews are preparing to sign out aircraft for their transporture.











Left last stop before the flight line is a check of the oxygen mask in clife support unit

Above Sideny officer of the Devil Cats of the 6/7th Flying I running Separation is Captain Scott Chapman. Among the more experience a instinctor pilots. Capt Chapman was proviously assigned to Strategic Air Command see a 6/6/2 pilot.





## Recognition and Graduation



Above As part of the day's formal retreat, the National Anthom is played and the flag is lowered. Later, at the exercision, is conclusion, the folded flag is presented to the retiring MSgt Hernandesin recognition of his years of devoted service.

The Air Force pays tribute to those special people who devote a large part of their lives in selfless service to their country. One late afternoon as the day's activities wound down at Williams, an eclectic strong of onlookers formed on their rassy area.

moving ceromony. Master Sergeant Jose Hernandez officially retired after serving over twenty years in Air Force maintenance and engineering MSgt Hernandez is seen at attention on the right as the honour guard takes possition.



Right The 21 quadrates of Winamas cases of 26, are more than 26,000 Winamas attitlents before them, were presented their hard-warned nilver wings. The pinning curemony is an informal affair, calling on parents or spouses to do the binomire.

Above The districted week plot training experience ends on the lappy note for those pulphy-motivated vering efficiency with the smartly and latest to make such the physician at latest to make such the programmer. In attitude, no their along wind, the newly graduated priors carry, with them their their assugnments and to receptions. Whether it is one of RC TAC, MAC or take's of TC these tright young plots bearining with boundless embussion, utilizated by a tright young plots bearining with boundless embussion, utilizated by a tright young plots bearining with boundless embussion, utilizated by a tright of the refered future.











Left On graduation day parents can hardly help bubbling with pride over the accomplishment of their son or daughter. An instructor pilot of one of the graduates told has former pupil within earshot of the graduate's parents, 'I'd fly with you any day'

Above Before long the dress blue uniforms will give way to sage green flight suits and these new Air Force pilots will engage in their chosen profession of flying





## **Base tour**



Base include an impressive cluster of tall painties just inside the main gate.

Above Armong the Data is stated infigurery to the sense described Leckmond 19th Bottomic Blast. In the Trivine is fast in questions of religion. These regions were used for exercising a William Bottomic Blast and State of the Company of the Comp







Above A snappy salute is likely to greet any authorized visitor to Williams Air Force Base—the largest undergraduate pilot training facility in the western world.

Right In the adjacent town of Higley, the major thoroughlare leading to the base's main gate is appropriately designated Williams Field Road



Left The nearby community of Chandler is home to this F-86



illiams A.F.B. ixiliary eld oolidge



Above Here RSU personnel have cleared a Tweet for landing, and watch it during roll out

Right The scope of the sprawling Williams complex is evident from the vantage point of the control tower. These young airmen have a great view and considerable responsibility.







Above Assays a seep See for the fire to A spire print to nove at other attainment's notice. While the area training attends fine teauses many alarms to be sounded fortunately few are serious emergencies.

Right lane maintenance is divided into sections. Here the so-called Apache unit stands ready as a T. 38 Gazes had









This impressive structure, tastefully landscaped with native cacts, houses both the T-3 and T-38 high thech flight simulators; Located elsewhere on base is the Art Force Human Resources Laboratory's Operations Resources Laboratory's Operations Training Division which is engaged in the development of even more sophisticated flight simulators



Above An old lank Tramer, symbolizing early efforts in flight simulation, occupies space in the open stair well of the flight simulator huilding.

Right A sudent and instructor are riding this motient flight simulator through the stough air generated by a computer. The unit's massive legs move brankly at the computer's commands, profusing a realism sense of motion for the officers enclosed in the instation cockpits above.





## **Badges of honour**



Above The 97th Fiying Treating Squadrons advised save four flights, one of which is called Stiftle. The offices of Stiftle Flight proudly wear their shoulder patch that aports a treatment of the patch and the patch and service patch that aports a treatment of the patch and the patch and service patch designs help to until the patch designs help to until a separate or patch and the patch of the Force hopes its student plots will. Force hopes its student plots will. Right Each class passing through Williams designes in own shoulder patch. The attent is immersible to improve the same patch. The attent is immersible to example that in mal form now decorates; well in a signatron building, the sush lease of 1980 concocent the improbable science of a Talon hutting open the planes amul the stars in space. The patch words of ofwardon, and emissioned on the other control of ordination, and will allow the stars in space. The patch words of ofwardon, and emissioned on the SEE SEE AM TO SEE AM







Air Training Command's emblem appropriately symbolizes learning with a lighted torch



Theorem (1970) Existing Wing Transmitt costs to will fail Fallets (Crosp Assister Fallets (Crosp Assister Fallets)) (1970











Left The apparatus equilibores adversible the contract the contract of the term granters buildings on endeclaceted in 25 ph/shouring to life in distribution the other to 7 life throways the within and the wints; Each state them sequentials that the other to 7 life throways the within and the wints; Each state them sequentials that the contract the contract that the contract that the contract the wints presented by that the deal of 15 percentage of the contract that the contract present the contract that the contract the contract that the contract that the contract when the contract that the level of entered wavegraption, the wints because the minutes y accorded to the contract that the contract that the contract that the level of entered wavegraption. The wints throw minutes was contract that the level of entered wavegraption, the wints because the desirated which because of except and the contract that the contract the desirated which because the contract the contract that the contract the desirated which because the contract that the contract that the contract that the contract that the desirated which because the contract that the contract that the contract that the contract wavegraph and the contract that the contract th

Above by custom, each uncoming class paints one of the socks inferior the base heading are building. Here a class has chosen the when him grant particles Schulz, comic strip character Shoopy, which is often associated with available, ask eding of their presence on base. Upon the class 's griduation's different paint scheme produced by yet another incoming class will decorate this rock. And so the tradema. When the class 's production's children paint.

## Tiger II

White Wilhams is known as an undergraduate pilot training base, it has played host to the 425th Tactical Fighter Training Squadron since 1884. The 425th provides advanced fighter training to pilots of allied nations and has used the Northrop F-SE Tiger II for this purpose. Here, four F-SE are shown in a relatively low formation pass.













Left Dummy bombs for practice bombing runs await installation

Above The fierce head of a growling tiger adorns the tail of a Tiger II. The relative low cost, simplicity ease of maintenance, and good performance characteristics have made the f-56 a popular export term in excess of 1000. Tiger IIs have been delivered to 19 nations.











A coupor of days pre-coding the base: for mail open-houses the flow Angels performed a bull practice desires which consistence of previous relatives to base performed a bull practice of consistence which consistence has more been processed and for the bases' sensor of other to give the near bull processed and processed and processed processed and processed processed and process



During an unasually quiet moment at Williams. Col Stecklein (centres confers with some of the Blue Angels pilots.



Above A Blue Angels team member hands out descriptive brochures to awestruck children

Right An exceedingly popular attraction wherever they perform, the Blue Angels pilots are typically surrounded by affectionate autograph seekers at airshows across the country. Here team leader, Commander Pat Moneymaker, prepares to accommodate a crowd of admirers during Willie Day.









Above 18th the Black Angels by the McDonnel Douglast? A 18th Hornet as emazing aircraft that has both fighter and attack capabilities. Its naval aviation oftentiation is evident in the beefed up funding gear that must be able to withstand the repetitive shock of carrier landings.

Below left Although the maintenance crews receive only a tiny share of the public's attention, their contribution to the earn's successes invaluable. Here maintenance crewmen ends to the imparations but neverthrees important details. Because of this superto maintenance the Blue Angels have never had to cancel a selectual superance due to exchange in military in military.

Above The Blue Angels during their warm up, like the student pilots on a normal day at Williams, are reduced to the old method of communication by hand signal.











Left Among the impressive displays at Willie Day '89 was the Rockwell B-1B bomber, shown here silhouetted against the Superstition Mountains upon arrival

Above With less than one hundred in the Air Force inventory, the awesome B-IB is an often sought but rarely obtained airshow aircraft. Williams was fortunate to secure one for its open house

Below The first stop for Williams graduates assigned to fighters is likely to be Hollomas Air Force Base in New Mexico where they will receive fighter lead-in training in the AT-38B, a modified version of Northrop's dependable Talon. Note the glossy blue camouflage paint scheme of this Holloman-based B model on display during Willie Day.



Above Possible future & Ir Force pilots stepping up to the cockpit of a Williams 7-38 for a look inside. The annual Williams Air Force base open house not only affords taxpayers from the surrounding communities an opportunity to see their tax dollars at work but allows young people like those pictured here to learn more about military aviation

Right Some of the more enterprising sorts from the base set up a scale T-38 model in the blesentensial Air Fore Thundsrbrids air demonstration team colours along the static display line during Willie Day. The poster beckons CEFF YOUR PICTURE FAKEN IN AN AIR FORCE MINI-JEFF Many Indiren, amiliten by the avisation bug, could be seen tugging on trosser legs and skirts for the chance to sit in the trainer modelup and indules expensed of sense.



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